

MAG28



Main Features

- AMR Technology
- Compact
- Analogue interface
- Low Cost, Low Power
- Low Mass, Low Volume
- Customizable
- Test connector

Lusospace' MAG28 magnetometer is an ideal solution for attitude reference in LEO missions. It provides 3 axis analogue readings of the surrounding magnetic field, and it is housed in a compact enclosure for easy integrations.

The MAG28 magnetometers are in-house designed, manufactured and calibrated, and they can be customized to meet mission requirements.

Performance Specifications	
Dynamic Field Range	+/- 70000 nT
Noise (2 Sigma)	<= 40 nT
Offset	<= 500 nT
Linearity	< 0.2% (full scale)
Bandwidth	<= 50 HZ
Reliability (MTBF)	> 1.4 Mh

Electrical Specifications	
Supply Voltage	15V to 40V
Power consumption	<1.0 W
Output swing (analogue)	+/- 5V (customizable)
Test connector	Full scale

Mechanical Specifications	
Mass	300 g
Dimensions (LxWxH)	85x53x60 mm (excl. connectors)
Mounting I/F	4 x M4

Environmental Specifications	
Operating Temperature	-30 C to +60 C
Non-operating Temperature	-40 C to +70 C
Radiation Hardness	Up to 50 kRad
EMC	CE (Conducted Emissions) CS (Conducted Susceptibility) RE (Radiated Emissions) RS (Radiated Susceptibility) ESD

Qualification

Fully qualified for space applications according to ECSS (ESA) standards and MIL standards.

Heritage

Reference missions: PROBA-2, AEOLUS, RADARSAT, PRISMA and more.